SEQUENCE LISTING

<110> Hartley, James L.

Brasch, Michael A.

Temple, Gary F.

Fox, Donna K.

<120> Recombinational Cloning Using Nucleic Acids Having Recombination Sites

<130> 0942.2850004

<140>

<141>

<150> US 60/065,930

<151> 1997-10-24

<160> 60

<170> PatentIn Ver. 2.0

<210> 1

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination products

<400> 1

rkycwgcttt yktrtacnag stsgb

25

<210> 2

<211> 25

<212> DNA

<213> Unknown

<2205

<223> Description of Unknown Organism: recombination

products <400> 2 agccwgcttt yktrtacnaa ctsgb 25 <210> 3 <211> 25 <212> DNA <213> Unknown <220> <223> Description of Unknown Organism: recombination products <400> 3 gttcagcttt cktrtacnaa ctsgb 25 <210> 4 <211> 25 <212> DNA <213> Unknown <220> <223> Description of Unknown Organism: recombination products <400> 4 agccwgcttt cktrtacnaa gtsgb 25 <210> 5 <211> 25 <212> DNA <213> Unknown <220> <223> Description of Unknown Organism: recombination products <400> 5

25

gttcagcttt yktrtacnaa gtsgb

<210>	6	
<211>	25	
<212>	DNA	
<213>	Unknown	
<220>		
<223>	Description of Unknown Organism: recombination	
	products	
<400>		
agcct	gcttt tttgtacaaa cttgt	25
-010:		
<210>		
<211>		
<212>		
<213>	Unknown	
<220>		
	Description of Unknown Organism: recombination	
(223)	products	
	produces	
<400>	7	
agcct	gcttt cttgtacaaa cttgt	25
	· · · · · · · · · · · · · · · · · · ·	
<210>	8	
<211>	25	
<212>	DNA	
<213>	Unknown	
<220>		
<223>	Description of Unknown Organism: recombination	
	products	
<400>		
acccac	gcttt cttgtacaaa gtggt	25
.04 =		
<210>		
<211>		
<212>		
<213>	Unknown	•

<220>	•	
<223>	Description of Unknown Organism: recombination	
	products	
<400>	. 9	
gttca	gcttt tttgtacaaa cttgt	25
<210>		
<211>		
<212>		
<213>	Unknown	
<220>		
	Description of Unknown Organism: recombination	
-2201	products	
<400>	10	
gttca	gcttt cttgtacaaa cttgt	25
<210>	11	
<211>	25	
<212>	DNA	
<213>	Unknown	
<220>		
<223>	Description of Unknown Organism: recombination	
	products	
< 4.0.0 >	11	
<400>	gcttt cttgtacaaa gtggt	
gecea	gettt ettgtaedad gtggt	25
<210>	12	
<211>		
<212>		
	Unknown	
<220>		
<223>	Description of Unknown Organism: recombination	
	products	
<400>	12	

agcctgcttt t	ttgtacaaa gttgg			25
<210> 13				
<211> 25				
<212> DNA				
<213> Unknow	n			
<220>				
<223> Descri	ption of Unknown	Organism:	recombination	
produc	ts			
<400> 13				
	ttgtacaaa gttgg			25
-55				
<210> 14		•		
<211> 25				
<212> DNA				
<213> Unknow	n			
<220>				
<223> Descri	ption of Unknown	Organism:	recombination	
produc	ts			
(100) 14				
<400> 14	++		•	. 25
acceagettt c	ttgtacaaa gttgg			23
<210> 15				
<211> 25				
<212> DNA				
<213> Unknow	n			
<220>				
<223> Descri	ption of Unknown	Organism:	recombination	
produc	ts			
.400				
<400> 15				٥٢
gttcagettt t	ttgtacaaa gttgg			25
<210> 16				
<211> 25				
<211> 23				

<213>	Unknown	
<220>		
<223>	Description of Unknown Organism: recombination	
	products	
<400>	16	
gttcag	cttt cttgtacaaa gttgg	25
<210>		
<211>		
<212>		
<213>	Unknown	
4000 \$		
<220>	Description of Unknown Organism: recombination	
\223 /	products	
	produces	
<400>	17	
ccacca	acaaa cgcgtccatg gaattacact ttaatttag	39
<210>	18	
<211>	39	
<212>	DNA	
<213>	Unknown	
<220>		
<223>	Description of Unknown Organism: recombination	
	products	
<400>	1.8	
	acaag togacgcatg cogacageet tecaaatgt	39
00000	actually cogucined to the control of	
<210>	19	
<211>	46	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: synthetic	

<400> 19	
ggccgattac gatatcccaa cgaccgaaaa cctgtatttt cagggt	46
<210> 20	
<211> 30	
<212> DNA	
<213> Artificial Sequence	
<2220	
<220> <223> Description of Artificial Sequence: synthetic	
oligonucleotide	
	O
<400> 20	
caggttttcg gtcgttggga tatcgtaatc	30
<210> 21	
<211> 47	•
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: synthetic oligonucleotide	
<400> 21	
ggccagatta cgatatccca acgaccgaaa acctgtattt tcagggt	47
<210> 22	
<211> 31	
<212> DNA ·	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: synthetic oligonucleotide	
<400> 22	
caggttttcq gtcgttggga tatcgtaatc t	31
<210> 23	
<211> 48	

<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: 8	synthetic
oligonucleotide	
<400> 23	
ggccaagatt acgatatccc aacgaccgaa aacctgtatt	t ttcagggt 48
<210> 24	
<211> 32	
<212> DNA	
<213> Artificial Sequence	
<220>	
<pre><223> Description of Artificial Sequence: s oligonucleotide</pre>	synthetic
*g******	
<400> 24	
caggttttcg gtcgttggga tatcgtaatc tt	32
caggetteeg geogetygga tatogtaato tt	32
<210> 25	
<211> 15	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence:	synthetic
oligonucleotide	
4400	
<400> 25	
accgtttacg tggac	15
<210> 26	
<211> 31	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence:	synthetic
oligonucleotide	

<400> 26	
tcgagtccac gtaaacggtt cccacttatt a	31
<210> 27	
<211> 39	
<212> DNA	
<213> Artificial Sequence	
<220>	
<pre><220> <223> Description of Artificial Sequence: synthetic</pre>	
oligonucleotide	
<400> 27	
uauuuucagg guatggagaa aaaaatcact ggatatacc	39
<210> 28	
<211> 33	
<212> DNA	
<213> Artificial Sequence	
<220>	
<pre><223> Description of Artificial Sequence: synthetic</pre>	
oligonucleotide	
<400> 28	
ucccacuuau uacgccccgc cctgccactc atc	33
<210> 29	
<211> 33	
<212> DNA	
<213> Artificial Sequence	
<220>	
<pre><223> Description of Artificial Sequence: synthetic oligonucleotide</pre>	
orranimerentine	
440000	
<400> 29	
uauuuucagg guatgcctgt tctggaaaac cgg	33
<210> 30	

```
<211> 34
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: synthetic
      oligonucleotide
<400> 30
ucccacuuau uatttcagcc ccagggcggc tttc
                                                                    34
<210> 31
<211> 58
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: synthetic
      oligonucleotide
<400> 31
tccgttgaag cctgcttttt tatactaact tgagcgaagc ctcggggtca gcataagg
<210> 32
<211> 58
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: synthetic
      oligonucleotide
<400> 32
ccaataactt cgtatagcat acattatacg aagttattgc cccttggtga catactcg
<210> 33
<2.11> 20
<212> DNA
<213> Artificial Sequence
<220>
```

<223>	Description of Artificial Sequence: synthetic oligonucleotide	
<400>	33	
tcact	agtcg gcggcccaca	20
<210>		
<211>		
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: synthetic oligonucleotide	
<400>	34	
gagcgg	geece egeggaceae	20
<210>	35	
<211>	21	
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: synthetic oligonucleotide	
<400>	35	
ggccca	caag tttgtacaaa a	21
		2
<210>	36	
<211>	20	
<212>	DNA	
(213> .	Artificial Sequence	
220>		
(223>	Description of Artificial Sequence: synthetic oligonucleotide	
.400		

ccccgcggac cactttgtac	20
<210> 37	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
•	
<220>	
<223> Description of Artificial Sequence: synthetic	
oligonucleotide	
<400> 37	
acaagtttgt acaaaaagc a	21
<210> 38	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: synthetic	
oligonucleotide	
<400> 38	
accactttgt acaagaaagc t	21
<210> 39	
<211> 25	
<212> DNA	
<213> Unknown	
1000	
<220>	
<223> Description of Unknown Organism: recombination	•
products	
<400> 39	
rbycwgcttt yttrtacwaa stkgd	0.7
Loyongotte yetteacwaa sekga	25
<210> 40	
<211> 25	
<212> DNA	

<213>	Unknown	
<220>		
	Description of Unknown Organism: recombination	
\223>	products	
	products	
<400>	40	
asccw	gcttt yttrtacwaa stkgw	25
<210>	41	
<211>	25	
<212>	DNA	
<213>	Unknown	
<220>	\cdot	
<223>	Description of Unknown Organism: recombination	
	products	
<400>	4.1	
ascew	gcttt yttrtacwaa gttgg	25
<210>	42	
<211>	25	
<212>	DNA	
<213>	Unknown	
<220>		
<223>	Description of Unknown Organism: recombination	
	products	
<400×	10	
<400>		
gricaç	gcttt yttrtacwaa stkgw	25
<210>	43	
<211>		
<212>		
	Unknown	
<220>		
<223>	Description of Unknown Organism: recombination	
	products	

<400	> 43	
gttca	agcttt yttrtacwaa gttgg	25
<210	·	
<211		
	DNA	
<213>	Unknown	
<220>		
	Description of Unknown Organism: recombination	
	products	
<400>	44	
tcgga	cgaaa aaatatgatt gaact	25
<210>	45	
<211>		
<212>		
<213>	Unknown	
<220>		
12237	Description of Unknown Organism: recombination products	
	•	
<400>	45	
tcggad	cgaaa aaacatgttt gaaca	25
<210>	46	
<211>		
<212>		
<213>	Unknown	
<220>		
	Description of Universe Overeit	
.220/	Description of Unknown Organism: recombination products	
	F	
<400>	46	
tcggac	gaaa gaacatgttt gaaca	25
		23
<210>	47	

<211	> 25	
<212	> DNA	
<213	> Unknown	
<220:		
<223:	> Description of Unknown Organism: recombination	
	products	
<400	> 47 ·	
tgggt	cgaaa gaacatgttt cacca	25
		25
<210>	48	
<211>	24	
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: synthetic	
	oligonucleotide	
<100>	40	
<400>		
aactc	tcatg tttgacagct tatc	24
<210>	49	
<211>		
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: synthetic	
	oligonucleotide	
<100>	40	
<400>		
ogucy	gatat gttctgccaa g	21
<210>	50	
<211>		
<212>	DNA	
<213>	Artificial Sequence	

<220>	
<223> Description of Artificial Sequence: synthetic oligonucleotide	
<400> 50	
acaagtttgt acaaaaaagc aggctaattc tcatgtttga cagcttatc	49
	13
<210> 51	
<211> 46	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: synthetic oligonucleotide	
<400> 51	
accactttgt acaagaaagc tgggtcgatg gatatgttct gccaag	46
<210> 52	
<211> 53	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: synthetic oligonucleotide	
<400> 52	
ggggacaagt ttgtacaaaa aagcaggcta attctcatgt ttgacagctt atc	53
<210> 53	
<211> 50	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: synthetic oligonucleotide	
<400> 53	
ggggaccact ttgtacaaga aagctgggtc gatggatatg ttctgccaag	50

<210	> 54	
<2112	> 23	
<2122	> DNA	
<213>	> Artificial Sequence	
	•	
<220>		
<2232	Description of Artificial Sequence: synthetic oligonucleotide	
<400>	54	
aatac	attca aatatgtatc cgc	23
~ 010 >		
<210> <211>		
<211>		
\Z13>	Artificial Sequence	
<220>		
(223)	Description of Artificial Sequence: synthetic oligonucleotide	
<400>	55	
ttacca	aatgc ttaatcagtg ag	22
		~_
<210>		
<211>	48	
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: synthetic oligonucleotide	
<400>	56	
acaagt	ttgt acaaaaaagc aggctaatac attcaaatat gtatccgc	48
<210>	57	
<211>		
<212		

	-18-	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: synthetic oligonucleotide	
<400>	57	
accact	ttgt acaagaaagc tgggtttacc aatgcttaat cagtgag	47
<210>	58	
<211>	52	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: synthetic oligonucleotide	
<400>		
ggggac	aagt ttgtacaaaa aagcaggcta atacattcaa atatgtatcc gc	52
<210>	59	
<211>	51	
<212>	DNA	
<213> /	Artificial Sequence	
<220>		
<223> i	Description of Artificial Sequence: synthetic oligonucleotide	
<400> 5	59	
ggggaco	cact ttgtacaaga aagctgggtt taccaatgct taatcagtga g	51
<210> 6	50	
<211> 2	25	
<212> [ANG	
<213> t	Jnknown	
<220>		
(223> [escription of Unknown Organism: recombination	

products

<400> 60 agcctgcttt tttatactaa cttga

25